STEPS TO CREATE IBM DB2 AND CONNECTION
WITH PYTHON
TEAM ID: PNT2022TMID15187

STEP 1: Import the ibm_db Python library: !pip

install --force-reinstall ibm_db==3.1.0

ibm_db_sa==0.3.7 import ibm_db

STEP 2: Identify the database connection credentials:

dsn_hostname = "2d46b6b4-cbf6-40eb-bbce-

6251e6 ba0300.bs2io90l08kqb1od8lcg.databases.appdomain.cl

oud" dsn_uid = "vjd29721"   dsn_pwd = "6TTgx8MRBzT45o3q"

dsn_driver = "{IBM DB2

ODBC DRIVER}" dsn_database = "BLUDB" # e.g.

"BLUDB" dsn_port = "32328" # e.g. "32733"

dsn_protocol = "TCPIP" # i.e. "TCPIP" dsn_security

= "SSL"

#i.e. "SSL"

STEP 3: Create the DB2 database connection:

dsn = (

   "DRIVER={0};"

   "DATABASE={1};"

   "HOSTNAME={2};"

```
    "PORT={3};"

    "PROTOCOL={4};"

    "UID={5};"

    "PWD={6};"
   "SECURITY={7};").format(dsn_driver, dsn_database, dsn_hostname,

dsn_port, dsn_protocol, dsn_uid, dsn_pwd,dsn_security) print(dsn) Now

establish the connection to the database


try:

conn = ibm_db.connect(dsn, "", "")   print ("Connected to database: ",
dsn_database, "as user:

", dsn_uid, "on host: ", dsn_hostname)



except:

   print ("Unable to connect: ", ibm_db.conn_errormsg() )
```

```python
server = ibm_db.server_info(conn)

print ("DBMS_NAME:      ",
server.DBMS_NAME)          print
("DBMS_VER               ",
server.DBMS_VER)           print
("DB_NAME", server.DB_NAME)


client = ibm_db.client_info(conn)


print ("DRIVER_NAME ",
client.DRIVER_NAME)print ("DRIVER_VER
             ", client.DRIVER_VER)
          print ("DATA_SOURCE_NAME: ",
client.DATA_SOURCE_NAME) print
("DRIVER_ODBC_VER",
client.DRIVER_ODBC_VER) print("ODBC_VER ",
client.ODBC_VER)
print ("ODBC_SQL_CONFORMANCE",
client.ODBC_SQL_CONFORMANCE)

print ("APPL_CODEPAGE   ", client.APPL_CODEPAGE)print
("CONN_CODEPAGE ", client.CONN_CODEPAGE)
```

STEP4: Close the Connection:
```python
ibm_db.close(conn)
```